GENERAL STRUCTURAL NOTES

DESIGN CRITERIA:

BUILDING CODE: INTERNATIONAL BUILDING CODE 2006, (IBC) WITH CITY AMENDMENTS

ROOF D.L.= 4 PSF

ROOF L.L.= 20 PSF (REDUCIBLE)

V (3-SECOND GUST SPEED) = 90 MPH

WIND:

IMPORTANCE FACTOR, IN = 1.00 EXPOSURE = B

NOTES TO CONTRACTOR:

PROJECT SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR OR PERSONS IN CHARGE OF THE DAY-TO-DAY CONSTRUCTION. COMPLY WITH ALL OSHA REQUIREMENTS. UNSECURED ROOF OR FLOOR JOISTS ARE SUBJECT TO ROLL OVER AND SHOULD NOT BE USED AS A WALKING SURFACE UNTIL THEY ARE SECURED AT BOTH SUPPORTS AND LATERALLY BRACED. PROVIDE TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING ERECTION.

VERIFY EXISTING CONDITIONS SHOWN IN DRAWINGS. PROMPTLY NOTIFY THE ENGINEER IF DETAILS AND INFORMATION CONTAINED ON THESE PLANS DO NOT CONFORM TO THE CONSTRUCTION SITE CONDITIONS.

VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ACTUAL FIELD CONDITIONS. DIMENSIONAL CONTROL IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

IF THERE ARE CONFLICTS IN THE DRAWINGS, THE COSTLIER ITEMS SHOWN SHALL GOVERN FOR BIDDING PURPOSES, OR SUBMIT A PRE-BID "REQUEST FOR CLARIFICATION".

ENGINEERING DESIGN PROVIDED BY OTHERS SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF ARIZONA.

SPECIAL STRUCTURAL INSPECTION:

PROVIDE SPECIAL INSPECTION ADDITION TO THE INSPECTIONS CONDUCTED BY THE DEPARTMENT OF BUILDING SAFETY. SPECIAL INSPECTIONS DO NOT RELIEVE THE OWNER FROM REQUESTING THE INSPECTIONS REQUIRED BY IBC SECTION 109

PROVIDE SAFE ACCESS TO THE WORK FACILITIES BY THE SPECIAL STRUCTURAL INSPECTOR. NOTIFY ENGINEER OF CONSTRUCTION START DATE AND COORDINATE INSPECTIONS. PROVIDE THE ENGINEER 24 HOURS NOTICE OF SPECIAL INSPECTIONS. SPECIAL INSPECTIONS MAY BE CONDUCTED AS NOTED IN PARENTHESES BELOW. SEE IBC CHAPTER IT FOR MORE SPECIFIC INFORMATION

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION PER IBC CHAPTER 17:

I. EXPANSION AND ADHESIVE/EPOXY ANCHOR BOLTS AND EPOXY REBAR (PRIOR TO PLACEMENT OF ANCHORS)

2.STRUCTURAL STEEL FRAMING

a.STRUCTURAL FIELD WELDING (AFTER COMPLETE AND SLAG REMOVED) b.STRUCTURAL STEEL DETAILS

3.CONCRETE REINFORCING AND PLACEMENT (PRIOR TO CONCRETE PLACEMENT)

FOUNDATION:

BEAR FOOTINGS ON UNDISTURBED SOIL OR APPROVED ENGINEERED FILL AT I'-6" (MIN.) BELOW LOWEST ADJACENT FINISHED GRADE. SOIL PRESSURE 1,500 PSF PER IBC 1804.2, CLASS 5 MATERIAL.

A SITE SPECIFIC GEOTECHNICAL EVALUATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. SML ENGINEERS ASSUMES NO LIABILITY WITH REGARD TO DIFFERENTIAL SETTLEMENT THAT COULD RESULT DUE TO THE POSSIBLE PRESENCE OF EXPANSIVE OR COLLAPSIBLE SOILS.

CONCRETE:

A.C.I. MANUAL OF CONCRETE PRACTICE, TYPE II-V CEMENT.
MINIMUM 28 DAY STRENGTH OF 3,000 PSI (DESIGN VALUE=2,500 PSI)
FLY ASH: ASTM C-618 CLASS F, NOT TO EXCEED IS % OF THE CEMENTITIOUS
MATERIALS BY WEIGHT.
MECHANICALLY VIBRATE WHEN PLACED, EXCEPT SLABS ON GRADE.
MAXIMUM SLUMP 5"

REINFORCING:

ASTM A615, GRADE 60 DEFORMED BARS, DETAIL PER LATEST A.C.I. CODE AND DETAILING MANUAL. PLACE REBAR PER. C.R.S.I. STANDARDS.

STRUCTURAL STEEL:

APPLICABLE ICC-ESR.

ROLLED W SECTIONS: ASTM A992 OR ASTM A572, GRADE 50 OTHER ROLLED SECTIONS, ANGLES, PLATES AND BARS: ASTM A36 BOLTS: ASTM A307, U.N.O.

POST-INSTALLED ANCHORS:
POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE
CONSTRUCTION DOCUMENTS. DO NOT USE IMPACT WRENCH TO SET OR
TIGHTEN POST-INSTALLED ANCHORS. ALL POST-INSTALLED ANCHORS SHALL
BE TORQUED TO MANUFACTURER'S REQUIREMENTS. ALL POST-INSTALLED

ADHESIVE ANCHORS (CONCRETE): COMPLY WITH ICC AC 308, AND SHALL BE ONE OF THE FOLLOWING:

I) SIMPSON SET-XP (ICC-ES ESR-2508)
2) HILTI HIT-RE 500-SD (ICC-ES ESR-2322) OR APPROVED EQUAL

ANCHORS SHALL REQUIRE CONTINUOUS SPECIAL INSPECTION PER THE

WELDERS SHALL HOLD VALID CERTIFICATES AND HAVE CURRENT EXPERIENCE IN THE TYPES OF WELDS REQUIRED. USE E-70 SERIES LOW HYDROGEN RODS. CONFORM TO AMERICAN WELDING SOCIETY STANDARDS. COMPLETE PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.

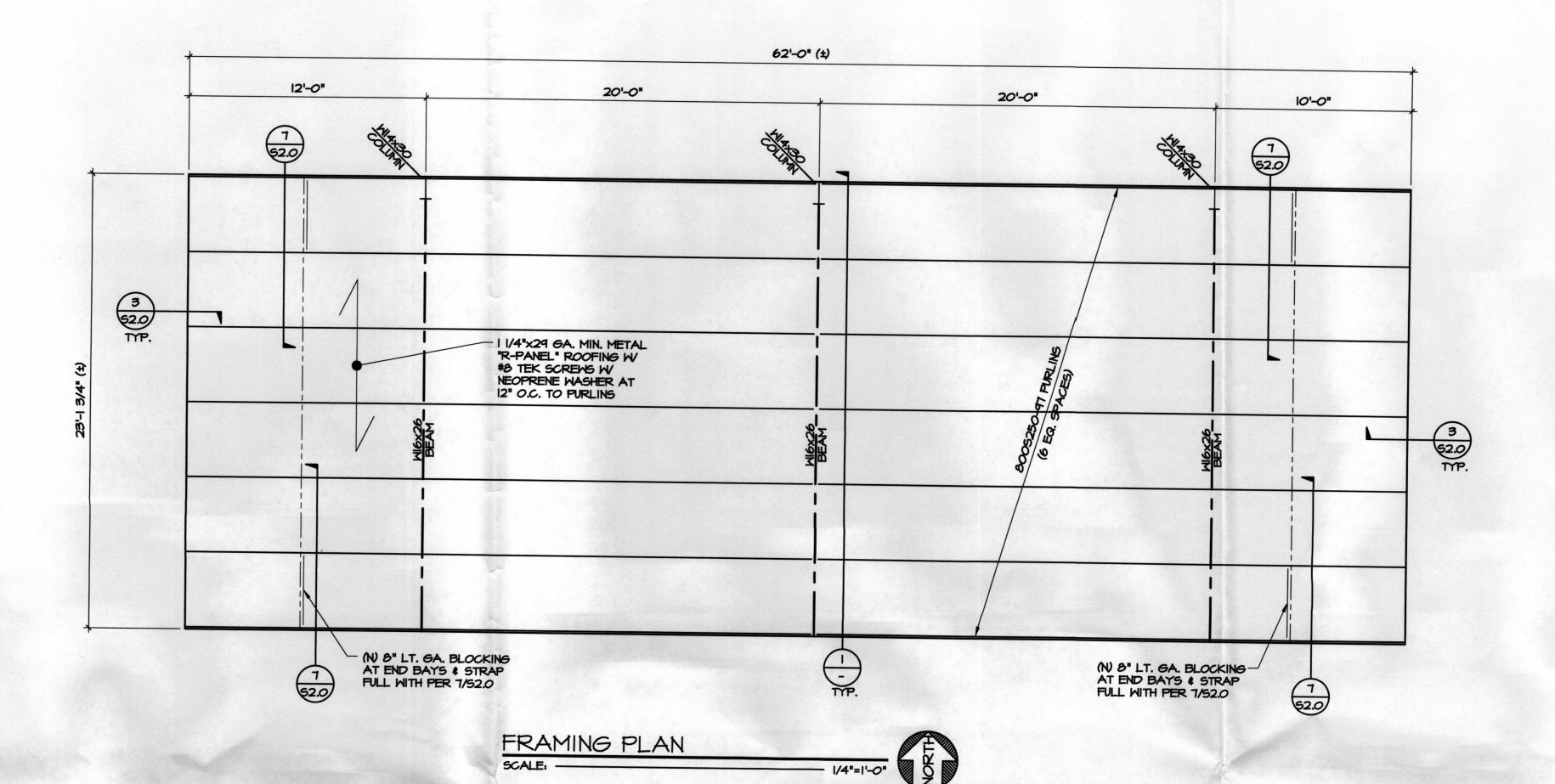
PAINT STRUCTURAL STEEL WITH ONE SHOP COAT PRIMER OVER CLEAN METAL EXCEPT WHERE STRUCTURAL STEEL IS TO BE PERMANENTLY IN CONTACT WITH CONCRETE OR IS TO RECEIVE SPRAYED-ON FIRE PROOFING.

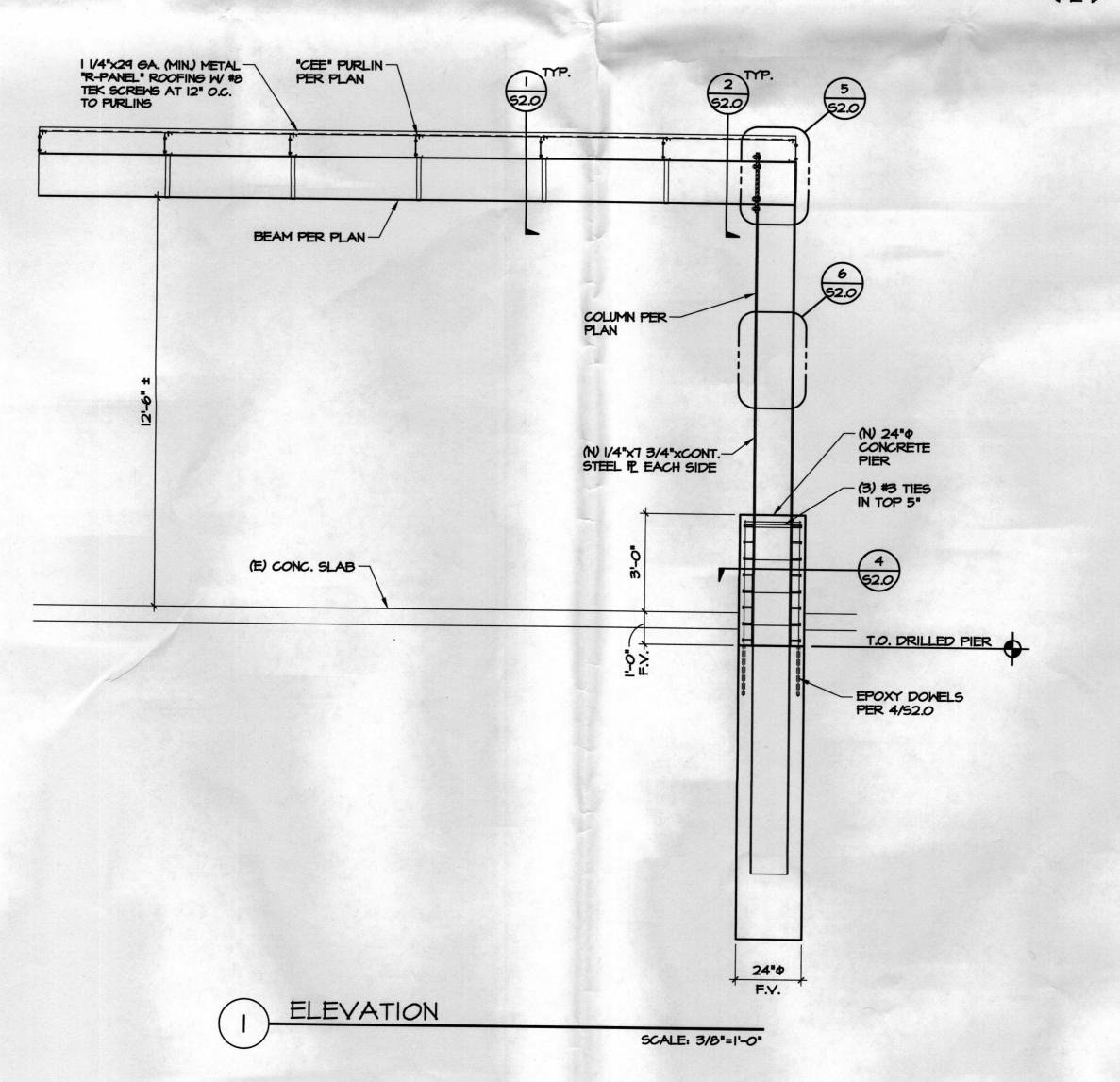
METAL DECKING:

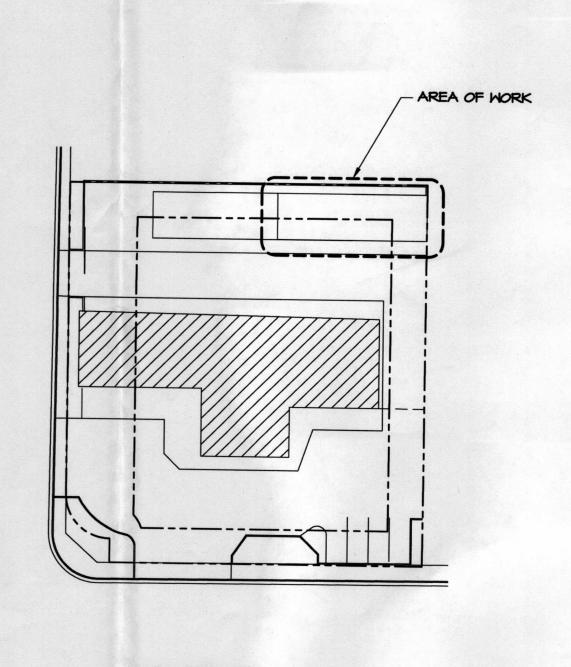
COMPLY WITH STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS

ROOF DECK: I 1/4"x29 GA. (MIN.) METAL "R-PANEL" W #8 TEK SCREWS W NEOPRENE WASHER AT 12" O.C. TO SUPPORT.

PAINTED STEEL DECK TO HAVE RUST INHIBITING PRIMER PAINT.







Consulting Structural and Forensic Engineers

ng Madison Lofquist, In 5224 S. 39th Street Phoenix, Arizona 85040 (602) 438-2500

Starling Sta

PRELIMINARY IF NOT SIGNED AND SEALED

DESIGN BY: A.D.H. DRAWN BY: T.M. CHK. BY: P.L.

JOB # 694-16

CANOPY 700 E. MAIN STREET MESA, ARIZONA

> BACKES AND BAUM 14003 S. 17th PLACE HOENIX, ARIZONA 85048

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